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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/502,390	02/10/2000	Roger K. Brooks	19838-000330US	5106

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EXAMINER

AN, SHAWN S

ART UNIT	PAPER NUMBER
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2613

DATE MAILED: 09/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/502,390

Applicant(s)

BROOKS ET AL.

Examiner

Shawn S. An

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 08 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) 1-15 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 16-32 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 3/30/05; 7/08/05
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Response to Amendment*

1. As per Applicants' instructions as filed on 7/08/05, claims 16 and 23 have been amended.

### *Response to Remarks*

2. Applicant's arguments with respect to amended claims as above have been carefully considered but are moot in view of the new grounds of rejection.

### *Claim Rejections - 35 USC § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 16-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guetz et al (6,091,777) in view of Doty, Jr. (6,795,863 B1).

**Regarding claims 16 and 23,** Guetz et al discloses a program product (Fig. 1, col. 11, lines 12-18) and a method for dynamically changing characteristics of an input video stream to meet requirements for a different output video stream, comprising:

obtaining frames of data derived from the input video stream (Fig. 1, NTSC input);

deriving requirements for the output video stream, including an encoding format for the output video stream (col. 10, lines 36-60);

changing characteristics of the frames of data in response to the respective requirement of the output video stream, to provide different characteristics for each output video stream (col. 11, lines 1-11), including different (adjusted) bit rates that

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correspond to both multiple different client device capabilities (client users) and (transmission) channel conditions (abs., col. 6, lines 7-25);

respectively, encoding characteristic changed frames of data to form each of the plurality of output video streams (compressed video streams, implying sequential) (Fig. 1; col. 5, lines 1-5); and

at a web streamer (col. 1, lines 13-17; col. 8, lines 9-21; col. 10, lines 23-35) selecting multiple output video streams to send to corresponding multiple client devices, and which correspond to capabilities of such client devices, including selection of output video streams having the different bit rates that correspond to both multiple different client device capabilities and channel conditions (Note: implying sequential processing) (abs., col. 6, lines 7-25).

Guetz et al does not specifically disclose a server performing selecting multiple simultaneous output video streams to send in their entirety to corresponding multiple client devices, and which correspond to capabilities of such client devices, including server selection of simultaneous output video streams having the different bit rates that correspond to both multiple different client device capabilities and channel conditions.

However, Guetz et al at least further discloses the web streamer for providing video data streams from stored video clips at a server in the Background of the Invention section (col. 1, lines 38-40).

Furthermore, Doty, Jr. teaches a system for combining streaming video comprising a server performing selecting multiple simultaneous output video streams to send in their entirety to corresponding multiple client devices, and which correspond to capabilities of such client devices, including server selection of simultaneous output video streams having the different bit rates that correspond to both multiple different client device capabilities and channel conditions (abs.; col. 5, lines 10-17; col. 9, lines 41-60).

Therefore, it would have been considered obvious to a person of ordinary skill in the relevant art employing a method for dynamically changing characteristics of an input video stream as taught by Guetz et al to incorporate Doty, Jr's teachings as discussed above so that the server selects multiple *simultaneous* output video streams to send *in*

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*their entirety* to corresponding multiple client devices, and which correspond to capabilities of such client devices, including server selection of *simultaneous* output video streams having the different bit rates that correspond to both multiple different client device capabilities and channel conditions for efficiently meeting time requirements, in response to a plurality of clients' requests (*sometimes, at the same time*), to send a plurality of multiple output video streams *simultaneously*, and also providing such as real-time playback of different video formats to a plurality of clients/users *simultaneously*, thereby sending multiple output video streams without any delay.

**Regarding claims 17 and 24**, Guetz et al discloses changing spatial resolution used by the frames of data in response to the spatial resolution requirement (col. 4, lines 59-62).

**Regarding claims 18 and 25**, Guetz et al discloses subsampling the frames of data (col. 11, lines 1-11).

**Regarding claims 19-20 and 26-27**, Guetz et al discloses changing color bandwidth comprises changing a bit depth of the frames of data to any bit depth (col. 10, lines 61-67; col. 11, lines 1-11).

**Regarding claims 21-22 and 28-29**, Guetz et al discloses changing (eliminating) frame rate of the frames of data in response to the frame rate requirements (col. 11, lines 1-18).

**Regarding claim 30**, Guetz et al discloses increasing spatial resolution used by the frames of data if such conditions permit (col. 3, lines 28-34).

**Regarding claim 31**, Guetz et al discloses changing spatial bandwidth used by the frames differently for each session corresponding to each output video stream and based on different formats for respective output video streams (abs.).

**Regarding claim 32**, Guetz et al discloses adjusting the frame rate of the output compressed data stream so that the output data stream becomes commensurate with the available bandwidth of the transmission channel, and adjusting further based on the receiver resource capabilities of the client users (abs.).

Therefore, it would have been obvious to a person of ordinary skill in the relevant art to simply reduce frame rate differently for each output video stream based on encoding formats or increase the frame rates of at least some of the output video streams in response to changes in both the client device characteristics and channel conditions that permit frame rate increase so that the output data stream becomes commensurate with the available bandwidth of the transmission channel.

### ***Conclusion***

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to *Shawn S. An* whose telephone number is 571-272-7324.
7. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Please note the new fax number.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**SHAWN AN**  
**PRIMARY EXAMINER**

9/23/05